Colorado Department of Public Health and Environment

COLORADO DISCHARGE PERMIT SYSTEM

RATIONALE FOR CERTIFICATION

GALETON DAIRY

CAFO PERMIT NUMBER COA932000

CERTIFCATION NUMBER COA932029

I. TYPE OF PERMIT

Colorado Concentrated Animal Feeding Operations General Permit

II. FACILITY INFORMATION

A. Facility Type: Concentrated Animal Feeding Operation - Dairy Operation
Annual Fee: $750 + ($0.09 x 8,778 animal units)
Permitted Capacity: 8,778 Animal Units
Total Annual Fee: $1,540.00

B. Legal Contact:
Mike Faulkner
Galeton Dairy Land Company, LLC
300 East 16th Street, Suite #301
Greeley, CO 80631
(970) 356-3693
Cell: (970) 381-5410

C: Facility Contact:
Joe Pelz
300 E. 16th Street, #301
Greeley, CO 80631
(970) 356-3693
Cell: (970) 381-1904

D. Facility Location:
37430 Weld County Road 51
Eaton, CO 80615
Weld County

III. FACILITY DESCRIPTION

Galeton Dairy (the facility) is a dairy operation with a confinement capacity of 3,600 mature dairy cows, 3630 dairy heifers, and 400 unweaned calves. The facility includes seven single-stage ponds (ponds N, 1A, 2, 3A, 4, B, and 11) and a four-stage impoundment (ponds 5, 6B, 7C, and 8D) for wastewater containment. In addition the facility utilizes one solids separating basin (pond C) and seven manure push-pits. The facility has multiple drainage basins that work separately to contain runoff. The north portion of the facility flows primarily via sheet flow into Pond N. The middle and south portion of the facility drain primarily via sheet flow to ponds 1A, 2, 3, 4, B, and C. Very little of this runoff enters ponds C and 1A. The majority of the volume available in ponds C and 1A is utilized for the storage of process wastewater from the milking parlor. Wastewater runoff from the feed storage area flows via sheet flow to pond 11.

Discharge spillways exist on the southeast corners of ponds B, N, 8D, and 11 for directing overflow and are the discharge monitoring points for the facility. Discharges from these impoundments will flow to Willow Creek and eventually into the South Platte River.

Spillways exist on ponds 2, 3A, and 4 for directing overflow into adjoining impoundments. Ponds C, 5, 6B, and 7C are connected to adjoining impoundments via overflow pipes. A pump is in place to manage the storage volumes in pond 1A and Pond C, with wastewater being transferred to the four-stage impoundment as necessary. Based on the above information, the Ag Program approves spillway exemptions for ponds C, 1A, 5, 6B, and 7C.

A portion of the southeast corner of the production area, including ponds 1A, 2, 3A, 4 and B, is located within the 100-year flood plain. Documentation provided by the facility adequately demonstrates that the berms in place between Willow Creek and the southeast corner of the production area (including ponds 1A, 2, 3A, 4 and B) act as reasonable protection from inundation by a 100-year flood.

Manure is stored in the confinement pens, stockpiled, or composted until released to third parties or land applied. The facility owns or controls seven land application sites, totaling 739 spreadable acres, for the application of wastewater and manure. Details regarding the location of the land application sites are summarized in Part VI below.

The volume of process wastewater and runoff generated at the facility as a result of the 25-year, 24-hour storm is greater than that from the chronic storm. The exceptions are ponds 1A and 3A where the chronic storm results in greater run-off. The impoundment storage volume and drainage basin runoff volume for the applicable storm event are shown below:

Impoundment Name	Pond 2	Pond 3A	Pond 4	Pond B	Pond 1A	Ponds 5-8d	Pond 11	Pond N
Volume at 2 feet of freeboard (acre-feet)	3.5	4.7	3.5	2.3	20.8	12.2	1.4	7.0
Volume of runoff from area tributary (acre-feet)	11.2				5.9		1.1	5.1

IV. CERTIFICATION REQUIREMENTS

A. The facility is not a "Housed Commercial Swine Feeding Operation" as that term is defined at 25-8-501.1(2)(b), C.R.S., and is not a duck CAFO.

B. The facility is not a CAFO for which a Total Maximum Daily Load (TMDL) has been established for the facility.

C. A discharge from the facility would not be to surface water for which there is an applicable control regulation that limits the quantity or concentration of total phosphorus or total nitrogen in discharges.

D. The facility has not requested alternative CAFO effluent limitations and has not proposed the use of site-specific alternative technologies per section 61.17 (7) of Regulation No. 61.

E. The facility has submitted a complete Application to Be Certified Under a General Permit for Concentrated Animal Feeding Operations and Nutrient Management Plan (NMP).

F. The facility's rain gauge is capable of accurately measuring precipitation to a detection limit of 0.1 inch. An acceptable Standard Operating Procedure for measuring precipitation was provided as part of the permit application.

G. All impoundments were designed by a professional engineer and have been designed and constructed in accordance with the standards of the Natural Resources Conservation Service, Field Office Technical Guide, Section IV, or equivalent.

H. All impoundments have properly designed and constructed spillways designed to prevent erosion of the structural integrity of the impoundment.

I. Depth markers have been installed in all open surface impoundments and terminal tanks, in accordance with Part IV.B.3., of the general permit.

J. Two feet of freeboard, or other freeboard level approved by the Program, exists in each open surface impoundment and terminal tank, in accordance with 61.17(5)(c)(ix)(E).

K. Clean water is diverted, as appropriate, from production areas, manure stockpiles, and composting areas, in accordance with 61.17(5)(c)(ix)(F).

L. Structures used to divert process wastewater from the production area are sized, in accordance with 61.17(5)(c)(ix)(G).

V. CONFORMANCE WITH CERTIFICATION REQUIREMENTS

Based on the information presented in Section IV above, the facility meets the requirements for certification under the permit as required in Attachment A of the permit.

VI. NUTRIENT MANAGEMENT PLAN

A Nutrient Management Plan (NMP) that satisfies the requirements of Part III of the permit was submitted with the application for permit coverage. The best management practices and procedures detailed in the NMP, as required to satisfy Part III (A)(1) through (9) of the permit, are incorporated into this certification by reference. The terms of the NMP listed in Part III (B)(1) of the permit are also incorporated into this certification by reference. The terms of the NMP are available through public notice for review and comment. The NMP must be kept on-site as long as the operation is certified under the permit.

A summary of location information related to the land application site(s) is provided in the table below:

Land Application Site Name	Spreadable Acreage	County	GPS Location	
			Latitude	Longitude
Magnuson Pivot	81	Weld	40.5545	-104.5847
Cecil Pivot	187	Weld	40.5492	-104.5955
Pelz	54	Weld	40.5450	-104.5874
Bruner Pivot	128	Weld	40.5404	-104.5878
Ley Pivot	115	Weld	40.5477	-104.5776
East Flood	22	Weld	40.5404	-104.5771
Heinz	152	Weld	40.5399	-104.5696

VII. RECORDKEEPING REQUIREMENTS

Recordkeeping requirements are presented in Part V of the permit.

VIII. MONITORING REQUIREMENTS

A. Monitoring requirements for discharges are presented in Part VI of the permit.

B. Soil sampling requirements are detailed in the facility's Nutrient Management Plan (NMP) in accordance with Part III. A. 7) and Part III B. 4)(a) of the permit. As prescribed in the NMP, the facility is responsible for soil sampling at depths outlined in the Colorado State University Cooperative Extension *Best Management Practices for Manure Utilization-Bulletin 568A*. The bulletin identifies the following for sampling depths as appropriate:

- 1 foot or less, to evaluate crop phosphorus, potassium, and other nutrient needs;
- 4 to 6 feet, from the deeper root zone after crop harvest and/or prior to any manure or effluent application to evaluate soil nitrate (NO_3);
- Soil sampling below the active root zone may be needed occasionally to document that nutrients are not leaving the root zone.

IX. REPORTING REQUIREMENTS

Reporting requirements are presented in Part VII of the permit.

A. Signatory Requirements: Signatory requirements for reports and submittals are presented in Part VII (B) of the permit.

B. Annual Reports: The facility must submit an annual report to the Environmental Agriculture Program by March 31st of each year. The annual report must include the information detailed in Part VII (C) of the permit.

C. Special Notifications: Special notifications are required in the event of a spill, bypass, or other noncompliance. Notification requirements are presented in Part VII (D) of the permit.

X. NMP CHANGES, PERMIT REOPENER, PERMIT RENEWAL, AND FEE INFORMATION

A. Changes to the NMP: For substantial changes to the terms of the NMP listed in Part III (B)(1) of the permit, the NMP and the facility's certification under the permit will be changed as presented in Part III (C) of the permit.

B. Reopener: The permit may be modified, suspended, or revoked in whole or in part during its term for any reason outlined in Part VIII (F) of the permit.

C. Renewal: Requirements for permit renewal are discussed in Part I (H) of the permit.

D. Fee Information: Permit fee requirements are presented in Part VIII (H) of the permit. An annual fee must be paid to the Colorado Department of Public Health and Environment to maintain coverage under the permit.

XI. REFERENCES

A. Natural Resources Conservation Service, *Field Office Technical Guide*, Section IV.

B. *Colorado Water Quality Control Commission, Regulation No. 61, Colorado Discharge Permit System Regulations (5 CCR 1002-61).* Denver: Colorado Department of Public Health and Environment as amended December 12, 2011 and effective January 30, 2012.

C. Colorado State University Cooperative Extension *Best Management Practices for Manure Utilization-Bulletin 568A*, September 1999.

Chad DeVolin
Environmental Agriculture Program
Colorado Department of Public Health and Environment
February 8, 2013

XII. PUBLIC NOTICE COMMENTS